



US Army Corps  
of Engineers  
Honolulu District



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## KAHOMA STREAM FLOOD CONTROL LAHAINA, ISLAND OF MAUI

**Project Location.** The Kahoma Stream watershed is located on the west coast of Maui, near the town of Lahaina. The drainage basin totals 5.4 square miles.

**Authorization.** The project was authorized by Section 201 of the Flood Control Act of 1965 (PL 89-298), as amended.

**Local Sponsor.** The local sponsor is the County of Maui.

**Completed Work and Present Status.** The project consists of a 5,415-foot concrete channel, a debris basin, offshore rubble apron, three pre-stressed concrete bridges, and related utility relocations. The debris design volume is 54,000 cubic yards. The project is designed for standard project flood level protection with a discharge of 15,200 cubic feet per second at the stream mouth. These improvements will prevent an average of \$3.2 million in damages annually. Based on a single storm event occurring on 4 November 1988, the project prevented an estimated \$12.3 million in flood damages by the completed channel while the project was still under construction. In November 1990, another storm occurred resulting in an additional \$15 million, making a total of \$27.3 million in flood damages prevented. The project was completed in April 1990. The flood control project won first place in the 1991 Maui Engineering Project of the Year competition in March 1991.

The cost of this project was \$18,500,000 (federal: \$10,840,000; non-federal: \$7,660,000). The non-federal costs include work estimated at \$1.3 million funded by the local sponsor for construction of an underpass to a shopping center, a vehicular traffic bypass at Front Street, widening of the Honoapiilani Highway Bridge, and a drainage outlet structure. Assisting the local sponsor on accomplishing this work has enhanced our partnership role with the County of Maui.

Additional work was performed to provide the County an improved access ramp and the maintenance of the debris basin. The construction contract was awarded in January 1996 and work completed in October 1996. The cost of the access road was \$550,000 (federal: \$393,000; non-federal: \$157,000).